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L11	2	"reusable form element" and output	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 14:13
L12	2	"20050086587"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 14:13
L13	2	"20040125130"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 14:13
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L21	7444	form and field and link and element and synchronize and output	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 14:13
L22	31	"metadata linking"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 14:13
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L26	46	"field linking" and form and (data or element) and valid	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 14:13

L27	18830	form and (field or element) and validate and (alter or change or edit)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 14:13
L28	2	"reusable form element"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 14:13
L29	1482	form and output and (element or field) and input and (change or alter or edit) and invalid and "715"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 14:13
L30	368	"form field" and synchronization	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 14:13
L31	77	"form field" and synchronization and "715"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 14:13
L32	204	"field linking" and form and (data or element)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 14:13
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1 [Schema mediation for large-scale semantic data sharing](#)

Y. Halevy, G. Ives, Dan Suciu, Igor Tatarinov

 March 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 14 Issue 1

Publisher: Springer-Verlag New York, Inc.

 Full text available: pdf(267.95 KB) Additional Information: [full citation](#), [abstract](#)

Intuitively, data management and data integration tools should be well suited for exchanging information in a semantically meaningful way. Unfortunately, they suffer from two significant problems: they typically require a common and comprehensive schema design before they can be used to store or share information, and they are difficult to extend because schema evolution is heavyweight and may break backward compatibility. As a result, many large-scale data sharing tasks are more easily facilita ...

Keywords: Data integration, Peer data management, Schema mediation, Web and databases

2 [Knowledge management II: Data at work: supporting sharing in science and engineering](#)

Jeremy P. Birnholtz, Matthew J. Bietz

 November 2003 **Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work**

Publisher: ACM Press

 Full text available: pdf(256.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Data are a fundamental component of science and engineering work, and the ability to share data is critical to the validation and progress of science. Data sharing and reuse in some fields, however, has proven to be a difficult problem. This paper argues that the development of effective CSCW systems to support data sharing in work groups requires a better understanding of the use of data in practice. Drawing on our work with three scientific disciplines, we show that data play two general roles ...

Keywords: collaboratories, communities of practice, data sharing, metadata

3

[Distributed teams: Capturing and supporting contexts for scientific data sharing via](#)

the biological sciences collaboratory

George Chin, Carina S. Lansing

November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work**

Publisher: ACM Press

Full text available:  pdf(1.29 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Scientific collaboration is largely focused on the sharing and joint analysis of scientific data and results. Today, a movement is afoot within the scientific computing community to shift "collaboratory" development from traditional tool-centric approaches to more data-centric ones. Yet, to effectively support data sharing means more than providing a common repository for storing and retrieving shared data sets. In order to reasonably comprehend and apply another researcher's data set, the sc ...

Keywords: collaboratory, data provenance, data sharing, data sharing contexts, data-centric collaboration, metadata, scientific workflow, tool-centric collaboration

4 Cooperative knowledge work and practices of trust: sharing environmental planning data sets



Nancy A. Van House, Mark H. Butler, Lisa R. Schiff

November 1998 **Proceedings of the 1998 ACM conference on Computer supported cooperative work**

Publisher: ACM Press

Full text available:  pdf(1.10 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: UC Berkeley Digital Library, assemblages, boundary objects, communities of practice, data sets, digital libraries, environmental planning, knowledge work

5 A semi-automatic data base translation system for achieving data sharing in a network environment



Stanley Y.W. Su, Herman Lam

May 1974 **Proceedings of the 1974 ACM SIGFIDET (now SIGMOD) workshop on Data description, access and control**

Publisher: ACM Press

Full text available:  pdf(915.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper deals with the problems of data base translation for achieving data sharing through a computer network. A semiautomatic data base translation procedure and its prototype implementation are described. The procedure takes advantage of data conversion capabilities already existing in programming languages and I/O control systems and of man-machine interaction to achieve data base translation tasks. The user of one system is allowed to browse, retrieve, edit, format and restructure t ...

Keywords: Computer network application, Data base translation, Man-machine interaction, On-line system.

6 Pragmatic ECAD Data Integration




G. Kaufman

June 1990 **ACM SIGDA Newsletter**, Volume 20 Issue 1

Publisher: ACM Press

Full text available: Additional Information:

 [pdf\(1.15 MB\)](#)
[full citation](#), [abstract](#), [references](#)

Data integration refers to the ability of applications to share data and the ease with which this data is shared. Data integration is one of the fundamental missing pieces of functionality in ECAD systems created with tools from multiple tool vendors. Current systems meet neither the user's nor the tool supplier's needs for sharing data. A data integration solution is composed of five parts: semantics, syntax, storage, translation, and mechanism. There are only a handful of data objects transferr ...

7 [Data-Driven and Demand-Driven Computer Architecture](#)



Philip C. Treleaven, David R. Brownbridge, Richard P. Hopkins
March 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 1

Publisher: ACM Press


Full text available:  [pdf\(4.14 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 [A formal basis for architectural connection](#)



Robert Allen, David Garlan
July 1997 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 6 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(463.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

As software systems become more complex, the overall system structure—or software architecture—becomes a central design problem. An important step toward an engineering discipline of software is a formal basis for describing and analyzing these designs. In the article we present a formal approach to one aspect of architectural design: the interactions among components. The key idea is to define architectural connectors as explicit semantic entities. These are specified as a col ...

Keywords: WRIGHT, formal models, model-checking, module interconnection, software analysis

9 [Visualizing geospatial data](#)



Theresa Marie Rhyne, Alan MacEachern, Theresa-Marie Rhyne
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(13.99 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include:• Rudimentary: minimal data sharing between the GIS and Vis systems• Operational: consistency of geospatial data• Functional: transparent communication between the GIS and Vis systems• Merged: one comprehensive toolkit environmentW ...

10 [Technical contributions: A method of sharing industrial software complexity data](#)



Warren Harrison, Curtis Cook
February 1985 **ACM SIGPLAN Notices**, Volume 20 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(430.02 KB\)](#) Additional Information: [full citation](#), [references](#)

11 Resolution of conflicts in data ownership and sharing in a corporate environment



Kenmore S. Brathwaite

September 1983 **ACM SIGMIS Database**, Volume 15 Issue 1

Publisher: ACM Press

Full text available: pdf(582.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

An approach to resolving conflicts in data ownership and sharing in a large corporation is presented. The approach consists of establishing a data ownership philosophy, a model for data sharing, and a user group to arbitrate and mediate in data sharing conflicts. The main objective of the approach is the resolution of conflicts but the attending benefits to the corporation include greater control over the data resource, increased auditability of the data, and reduction in the proliferation of sy ...

12 Distributed form management



Heikki Hämmäinen, Eero Eloranta, Jari Alasuvanto

January 1990 **ACM Transactions on Information Systems (TOIS)**, Volume 8 Issue 1

Publisher: ACM Press

Full text available: pdf(2.24 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An open architecture for distributed form management is described. The model employs object-orientation in describing organizational units as well as individual users as entities with uniform external interfaces. Each entity is represented by an autonomous user agent which operates on local and migrating forms. The form concept encapsulates data, layout, and rules into a unified object which is the basic unit of presentation, processing, storage, and commun ...

13 A Comparison of the Relational and CODASYL Approaches to Data-Base Management



Ann S. Michaels, Benjamin Mittman, C. Robert Carlson

March 1976 **ACM Computing Surveys (CSUR)**, Volume 8 Issue 1

Publisher: ACM Press

Full text available: pdf(2.06 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 Demo session: data sharing: Data sharing in the Hyperion peer database system



Patricia Rodríguez-Gianolli, Anastasios Kementsietsidis, Maddalena Garzetti, Iluju Kiringa, Lei Jiang, Mehedi Masud, Renée J. Miller, John Mylopoulos

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available: pdf(106.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This demo presents Hyperion, a prototype system that supports data sharing for a network of independent Peer Relational Database Management Systems (PDBMSs). The nodes of such a network are assumed to be autonomous PDBMSs that form acquaintances at run-time, and manage mapping tables to define value correspondences among different databases. They also use distributed Event-Condition-Action (ECA) rules to enable and coordinate data sharing. Peers perform local querying and update processing, and ...

15 User consulting in three forms of network-based organization



Richard C. Roistacher

May 1981 **ACM SIGSOC Bulletin , Proceedings of the joint conference on Easier and more productive use of computer systems. (Part - II): Human interface**

and the user interface - Volume 1981, Volume 13 Issue 2-3**Publisher:** ACM PressFull text available:  pdf(316.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The utility of computer networking to organizal tasks is discussed. Three forms of network organization are described, and some examples given. Problems of user consulting in each form of organization are discussed.

Keywords: Consulting, Networks, Organizations16 A study of three dynamic approaches to handle widely shared data in shared-memory multiprocessors

Stefanos Kaxiras, Stein Gjessing, James R. Goodman

July 1998 **Proceedings of the 12th international conference on Supercomputing****Publisher:** ACM PressFull text available:  pdf(1.44 MB) Additional Information: [full citation](#), [references](#), [index terms](#)17 Supporting the shared care of diabetic patients

Tim Kindberg, Nick Bryan-Kinns, Ranjit Makwana

November 1999 **Proceedings of the international ACM SIGGROUP conference on Supporting group work****Publisher:** ACM PressFull text available:  pdf(2.00 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper reports on a study of clinicians who care for diabetic patients, and on the design of an application to support their work. The clinicians' long-term activity is rooted in a series of private sessions with the patient. Clinicians exchange information but the timeliness, specificity and other salient features of the communication are often unsatisfactory. Problems consequently arise such as the omission or duplication of tests. We describe a conceptual framework to account for the ...

Keywords: cooperative systems, knowledge sharing, medical informatics18 Federated databases and systems: part I --- a tutorial on their data sharing

David K. Hsiao

July 1992 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 1 Issue 1**Publisher:** Springer-Verlag New York, Inc.Full text available:  pdf(2.99 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The issues and solutions for the interoperability of a class of heterogeneous databases and their database systems are expounded in two parts. Part I presents the data-sharing issues in federated databases and systems. Part II, which will appear in a future issue, explores resource-consolidation issues. *Interoperability* in this context refers to data sharing among heterogeneous databases, and to resource consolidation of computer hardware, system software, and support personnel. *Resour ...*

Keywords: *attribute-based, data-model-and-language-to-data-model-and-language mappings, database conversion, hierarchical, network, object-oriented, relational, schema transformation, transaction translation*

19 Asymptotic performance of a buffer model in a data sharing environment

Avi Bittan, Yaakov Kogan, Philip S. Yu

May 1994 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1994 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '94**, Volume 22 Issue 1

Publisher: ACM PressFull text available: [pdf\(852.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The performance of a transaction processing system is very sensitive to the buffer hit probability. In a data sharing environment where multiple computing nodes are coupled together with direct access to shared data on disks, buffer coherency needs to be maintained such that if a data granule is updated by a node, the old copies of this granule present in the buffer of other nodes must be invalidated. The buffer invalidation phenomenon reduces the buffer hit probability in a multi-node envi ...

20 Locating application data across service discovery domains

Paul Castro, Benjamin Greenstein, Richard Muntz, Parviz Kermani, Chatschik Bisdikian, Maria Papadopouli

July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**

Publisher: ACM PressFull text available: [pdf\(4.38 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The bulk of proposed pervasive computing devices such as PDAs and cellular telephones operate as thin clients within a larger infrastructure. To access services within their local environment, these devices participate in a service discovery protocol which involves a master directory that registers all services available in the local environment. These directories typically are isolated from each other. Devices that move across service discovery domains have no access to information outside t ...

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